

AMENDMENT TO THE CLAIMS

Claims 1-7, 10, 11, 15-16, 18-20, 22-43 and 46-59 are pending.

Claim 1 (Previously Amended) A composition comprising:

a compound having an unsaturation index of at least about 500;

a curing agent; and

an adhesion promoter,

wherein the composition is curable and has a peak exotherm of less than about 50°C

(120° F).

Claim 2 (Original) A composition according to claim 1, further comprising a non-curable diluent.

Claim 3 (Original) A composition according to claim 1, wherein the curable unsaturated compound comprises at least one unsaturated group selected from the group consisting of methacrylate, acrylate, vinyl and combinations thereof.

Claim 4 (Original) A composition according to claim 3, wherein the unsaturated group is methacrylate.

Claim 5 (Original) A composition according to claim 1, wherein the curable unsaturated compound is an oligomer.

Claim 6 (Original) A composition according to claim 5, wherein the oligomer is a dimethacrylate oligomer.

Claim 7 (Previously amended) A composition according to claim 6, wherein the dimethacrylate oligomer is a dimethacrylate polyetherurethane oligomer.

Claim 10 (Original) A composition according to claim 1, wherein the peak exotherm is from about 20°C to about 45°C.

Claim 11 (Original) A composition according to claim 1, wherein the peak exotherm is from about 35°C to about 40°C.

Claim 15 (Original) A composition according to claim 1, wherein the adhesion promoter is selected from the group consisting of poly(acrylic acid), poly(ethylene oxide), poly(vinyl pyrrolidone), poly(maleic anhydride-co-methyl vinyl ether), karaya gum, guar gum, acacia gum, carboxypolymethylene, chitosan, hydroxyethyl cellulose, sodium carboxymethylcellulose, hydroxypropyl cellulose, polycarbophil, poly(vinyl alcohol), hydroxypropylmethyl cellulose and compatible combinations thereof.

Claim 16 (Original) A composition according to claim 1, wherein the adhesion promoter is polycarbophil.

Claim 18 (Original) A composition according to claim 1, wherein the curing agent is a photoinitiator.

Claim 19 (Original) A composition according to claim 1, further comprising a bioadhesion synergist.

Claim 20 (Original) A composition according to claim 19, wherein the bioadhesion synergist is a divalent metal or an alkali metal ion.

Claim 22 (Original) A composition according to claim 1, wherein after curing the composition is a flexible bioadhesive.

Claim 23 (Original) A composition according to claim 1, further comprising a curing agent synergist.

Claim 24 (Original) A composition according to claim 23, wherein the curing agent synergist is ethyl-4-dimethylaminobenzoate.

- Claim 25 (Original) A composition according to claim 1, further comprising a silica thickener.
- Claim 26 (Original) A composition according to claim 1, wherein the composition is substantially free of monomers.
- Claim 27 (Original) A composition according to claim 1, wherein the composition is monomer free.
- Claim 28 (Original) A composition according to claim 2, wherein the non-curable diluent has a viscosity of from about 1 centipoise to about 2000 centipoise.
- Claim 29 (Original) A curable composition according to claim 1, further comprising a light-attenuating pigment.
- Claim 30 (Original) A curable composition according to claim 29, wherein the light-attenuating pigment is selected from the group consisting of titanium dioxide and zinc oxide.
- Claim 31 (Original) A composition according to claim 29, wherein the light-attenuating pigment is present from about 0.0001 percent to about 10 percent by weight of the composition.
- Claim 32 (Previously amended) A two part system comprising:
- a) a first part which comprises a curing agent; and
 - b) a second part which comprises a curing agent synergist of the curing agent of the first part,
- wherein the first part or the second part or both further comprises a compound having an unsaturation index of at least 500 and an adhesion promoter and wherein upon mixing of the first part and the second part, curing is achieved with a peak exotherm of less than about 50°C (120°F).

Claim 33 (Original) A composition according to claim 32, wherein the curing agent is a benzoyl peroxide and the curing agent synergist is N,N-dimethyl-p-toluidine.

Claim 34 (Previously amended) A method for forming a flexible bioadhesive on a tissue, comprising:

contacting the tissue with a composition comprising a compound having an unsaturation index of at least about 500, a curing agent and an adhesion promoter, wherein the composition is curable and has a peak exotherm of less than about 50°C (120°F), and

curing the composition to form the flexible bioadhesive on the tissue.

Claim 35 (Original) A method according to claim 34, wherein the tissue is selected from the group consisting of skin, mucosa, internal organs, bone, tendon, cartilage, enamel, dentin, and fingernails.

Claim 36 (Original) A flexible bioadhesive on a tissue surface prepared by the method of claim 34.

Claims 37-43 (Cancelled)

Claims 46-51 (Cancelled)

Claim 52 (Previously amended) A composition comprising a methacrylated polyetherurethane oligomer, capric/caprylic triglyceride, polycarbophil, camphorquinone, and ethyl-4-dimethylaminobenzoate.

Claim 53 (Original) A composition according to claim 52, further comprising fumed silica.

Claim 54 (Original) A composition according to claim 52, further comprising zinc oxide.

Claim 55 (Previously amended) A composition according to claim 52, wherein the composition comprises a methacrylated polyetherurethane oligomer in an amount from about 25 percent to about 98 percent by weight based on the total weight of the composition.

capric/caprylic triglyceride in an amount from about 2 percent to about 50 percent by weight based on the total weight of the composition, polycarbophil in an amount from about 10 percent to about 50 percent by weight based on the total weight of the composition, camphorquinone in an amount from about 0.05 percent to about 0.30 percent by weight based on the total weight of the composition, and ethyl-4-dimethylaminobenzoate in an amount from about 0.1 percent to about 1.0 percent by weight based on the total weight of the composition.

Claim 56 (Previously amended) A composition comprising a compound having less than about 40% monomers, an unsaturation index of at least about 500, a curing agent and an adhesion promoter, wherein the composition is curable and has a peak exotherm of less than about 50°C (120°F).

Claim 57 (Previously amended) A method of making a composition comprising the steps of:

selecting a compound having an unsaturation index of at least 500; and
mixing said compound with a curing agent and an adhesion promoter, wherein the mixture is curable and has a peak exotherm of less than about 50°C (120°F).

Claim 58 (Previously added) The method of claim 57, wherein the curable unsaturated compound comprises less than about 40% monomers.

Claim 59 (Previously added) The method of claim 57, wherein the curable unsaturated compound is monomer-free.